

$P_c(4450)^+$

Status: *

A resonance seen in $\Lambda_b^0 \rightarrow P_c^+ K^-$, then $P_c \rightarrow J/\psi p$, with a significance of 12 standard deviations. The $J/\psi p$ quark content is $uudc\bar{c}$, a pentaquark. See also the $P_c(4380)^+$. In the best amplitude fit, the two states have opposite parity, one having $J = 3/2$, the other $J = 5/2$.

 $P_c(4450)^+$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
4449.8±1.7±2.5	AAIJ	15P	LHCb $p p$ at 7, 8 TeV

 $P_c(4450)^+$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
39±5±19	AAIJ	15P	LHCb $p p$ at 7, 8 TeV

Mode	Fraction (Γ_i/Γ)
Γ_1 $J/\psi p$	seen

 $P_c(4450)^+$ BRANCHING RATIOS

$\Gamma(J/\psi p)/\Gamma_{\text{total}}$	Γ_1/Γ
VALUE seen	DOCUMENT ID AAIJ TECN 15P COMMENT LHCb $p p$ at 7, 8 TeV

AAIJ 15P PRL 115 072001 R. Aaij *et al.* (LHCb Collab.)